

## Features

- ITU-T G.984 compliant
- Built-in digital diagnostics function
- Single fiber bi-directional function
- 1310nm FP Burst-mode Transmitter
- 1490nm APD Continuous Receiver
- SFP metallic module
- Low power consumption
- DDM Implementation
- Compliant with RoHS & WEEE



## DPN-100 GPON SFP ONT Module

DPN-100 GPON ONT Module extends the GPON deployment in existing access network by transforming Uplink port from Ethernet to GPON. DPN-100 provides the standard SFP package with SGMII interface, which can easily replace the Ethernet SFP module existing in Ethernet gateway, switch, router etc.

Compliant with ITU-T G.984 and SFP MSA, DPN-100 Optical Network Terminal is equipped with OMCI stack, bi-directional optical transmitter and GPON MAC. The DPN-100 Transceiver supports up to 1.244 Gbps upstream and 2.488 Gbps downstream data rates.

### Technical Specifications

#### General

<b>Interface</b>	<ul style="list-style-type: none"> <li>• 1 x 1000Base-X port</li> </ul>
<b>Transceiver Type</b>	<ul style="list-style-type: none"> <li>• SFP</li> </ul>
<b>Connector</b>	<ul style="list-style-type: none"> <li>• SC/APC</li> </ul>
<b>Unidirectional / Bidirectional</b>	<ul style="list-style-type: none"> <li>• Bidirectional</li> </ul>
<b>Standards</b>	<ul style="list-style-type: none"> <li>• ITU-T G.984.x (G.984.5 support)</li> <li>• SFP MSA, INF-8074i</li> <li>• SFF-8472</li> <li>• FCC 47 CFR Part 15, Class B</li> <li>• FDA 21 CFR 1040.10 &amp; 1040.11, Class I</li> <li>• IEEE 802.3</li> <li>• ITU-T G.984.2 Amd1, Class B+</li> </ul>
<b>Maximum Cable Length</b>	<ul style="list-style-type: none"> <li>• 20 km</li> </ul>
<b>Data Rate</b>	<ul style="list-style-type: none"> <li>• Up to 1.244 Gbps Upstream; up to 2.488 Gbps Downstream</li> </ul>
<b>Cable Type</b>	<ul style="list-style-type: none"> <li>• Single-mode</li> </ul>
<b>Wavelength</b>	<ul style="list-style-type: none"> <li>• Tx: 1310 nm, Rx: 1490 nm</li> </ul>
<b>Transmit Power Range</b>	<ul style="list-style-type: none"> <li>• Max.: 5 dBm</li> <li>• Min.: 0,5 dBm</li> </ul>
<b>Sensitivity</b>	<ul style="list-style-type: none"> <li>• -28 dBm</li> </ul>
<b>Saturation Optical Power</b>	<ul style="list-style-type: none"> <li>• -8 dBm</li> </ul>

<b>Supported Features</b>	<ul style="list-style-type: none"> <li>• Hot Swap</li> <li>• 32 GEM-ports</li> <li>• 8 T-CONTs</li> <li>• Multicast GEM (up to 128 groups)</li> <li>• FEC Support</li> <li>• DBA Support</li> <li>• 8 Priority Queues</li> <li>• Serial Number / PLOAM Password Log in</li> <li>• Dying gasp</li> </ul>
<b>Physical</b>	
<b>Dimensions (L x W x H)</b>	<ul style="list-style-type: none"> <li>• 71,8 x 13,8 x 11,09 mm</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• 30 g</li> </ul>
<b>Working Environment</b>	
<b>Power Support</b>	<ul style="list-style-type: none"> <li>• 3.3 V</li> </ul>
<b>Max. Supply Current</b>	<ul style="list-style-type: none"> <li>• 750 mA</li> </ul>
<b>Consumption</b>	<ul style="list-style-type: none"> <li>• &lt; 2 W</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>• Operating: -30° to +60°C</li> <li>• Storage: -20° to +85°C</li> </ul>
<b>Humidity</b>	<ul style="list-style-type: none"> <li>• Operating: 5% to 95%, non-condensed</li> </ul>
<b>Additional Information</b>	
<b>Safety &amp; EMI</b>	<ul style="list-style-type: none"> <li>• RoHS</li> <li>• FCC/UL</li> <li>• CE</li> </ul>
<b>Supply Package</b>	
<ul style="list-style-type: none"> <li>• DPN-100 Module</li> </ul>	
<b>Order Info</b>	
<i>Model</i>	<ul style="list-style-type: none"> <li>• <i>Description</i></li> </ul>
DPN-100	<ul style="list-style-type: none"> <li>• <i>GPON SFP ONT Module</i></li> </ul>

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